

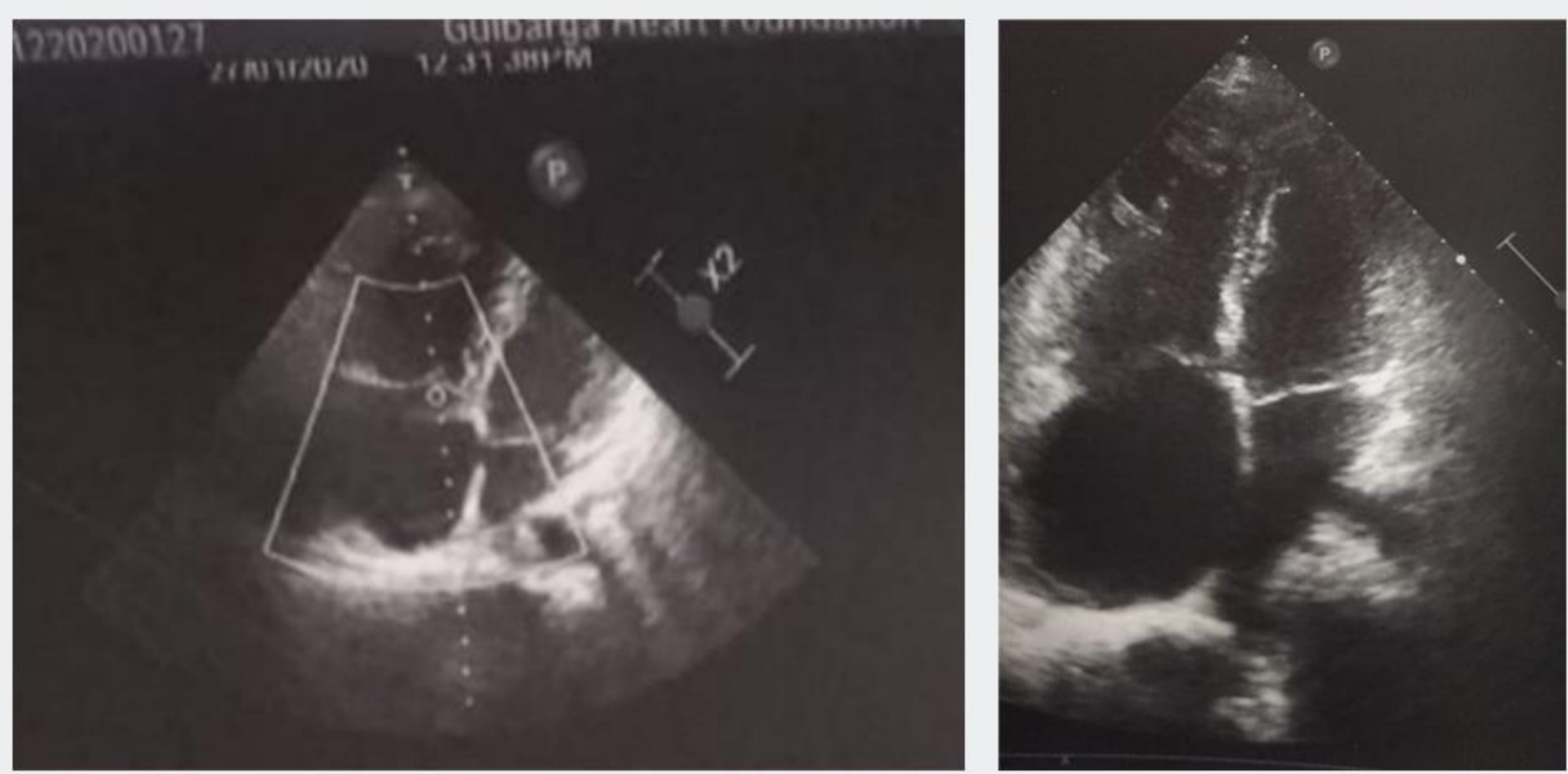
Large Ostium Secundum ASD Occlusion with MemoPart ASD Occluder

Transcatheter atrial septal defect (ASD) closure is a widely recognized solution for ASDs. However, information is limited about the use of this treatment for large defects. Here we report a closure of a large ostium secundum ASD (OS-ASD) at Gulbarga Heart Foundation by Dr. Veeraj Kalburgi and Dr. Sudeep Verma. The ASD was measured 32 mm on trans-esophageal echo (TEE) and closed with a 38 mm device (Shanghai Shape Memory Alloy, China).

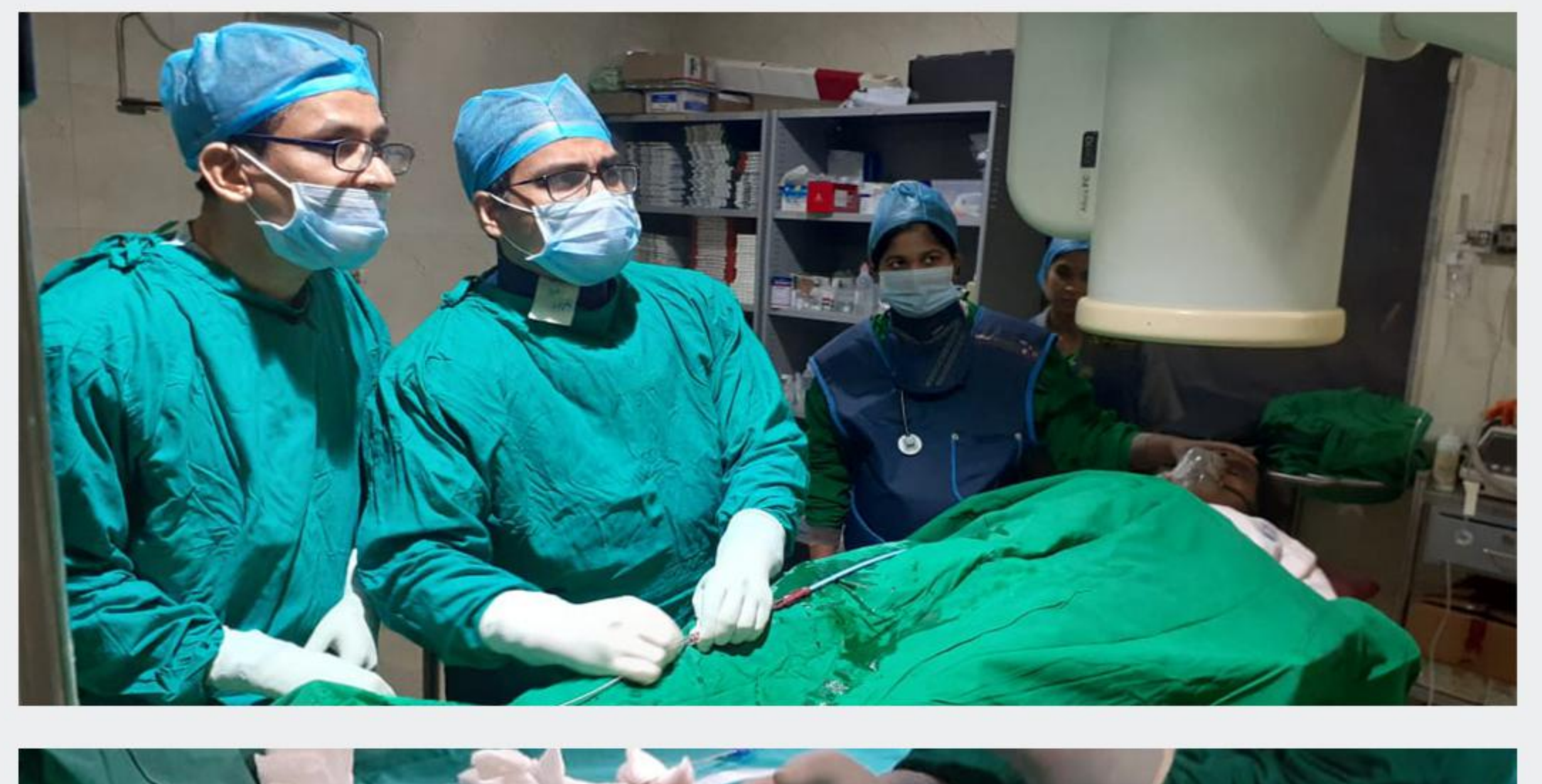
Patient Information

A 38 year old female was admitted into hospital with discomfort in the chest.

Pre-operation



Echo suggested that the patient is having Acyanotic Congenital Heart Disease (Acyanotic CHD), large OS-ASD (size 32 mm). She also has moderate pulmonary hypertension (RVSP 40-50 mmHg), mild tricuspid regurgitation and her LVEF is only 60%. Doctor advised her to go for surgery and the patient had rejected the plan. Therefore doctor closed the defect by using a 38 mm MemoPart ASD occluder.



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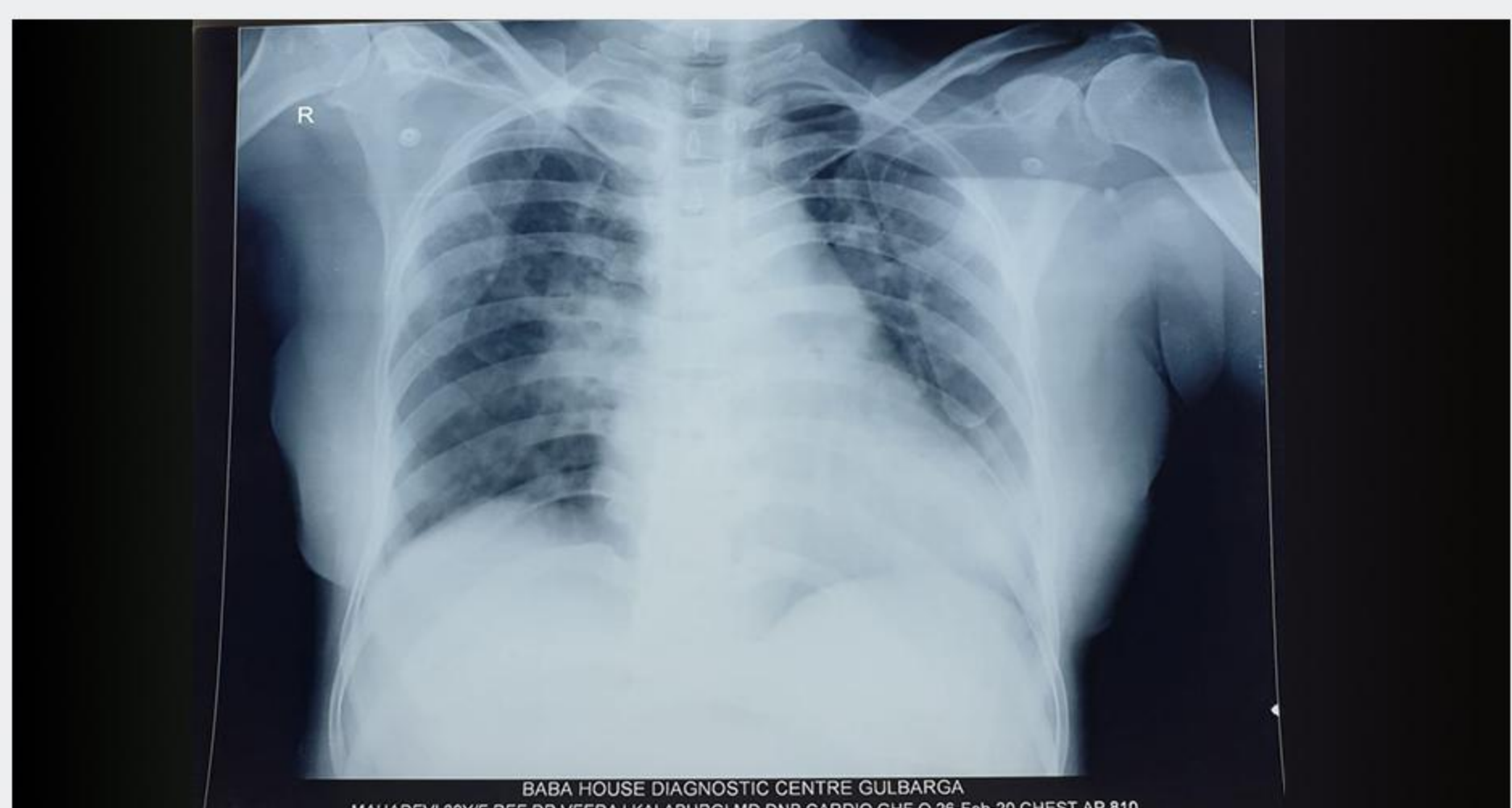
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Under fluoroscopy guidance, a 38mm MemoPart ASD occluder was successfully implanted by the doctor. The device placement was confirmed with TEE before sheath removal.

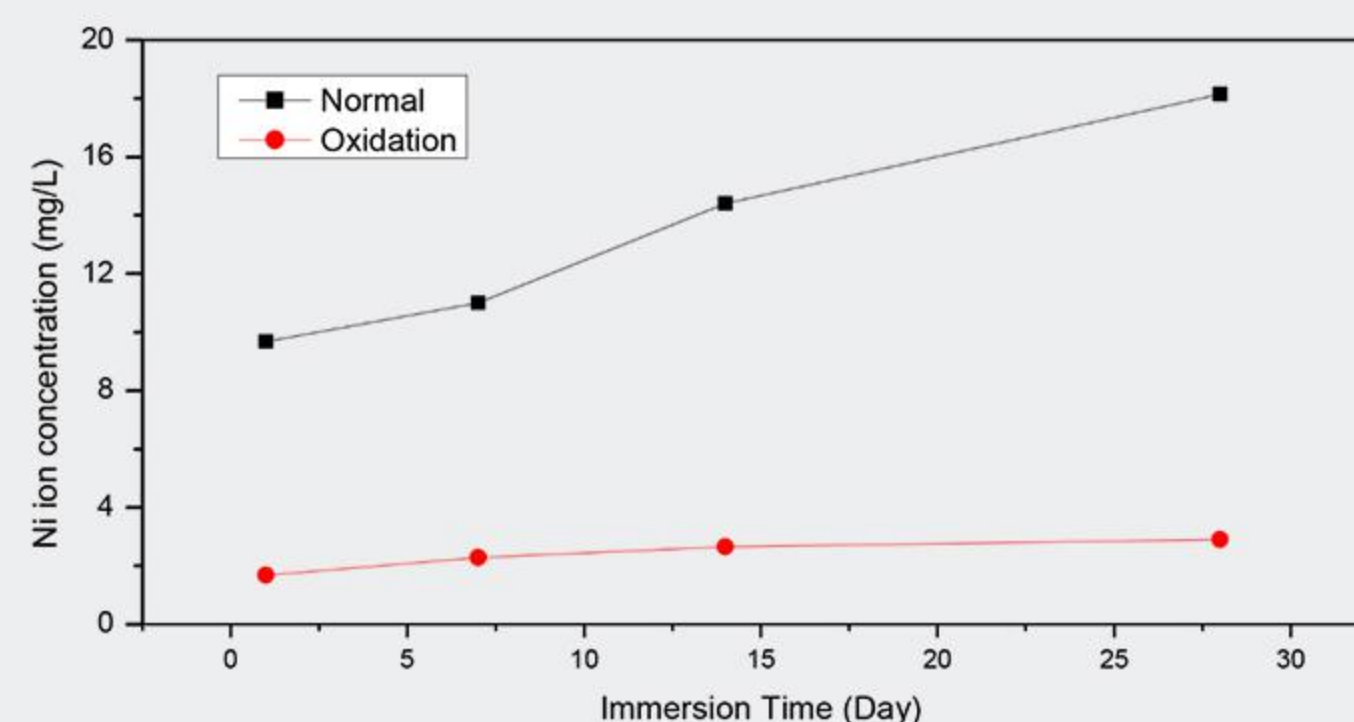
Post operation



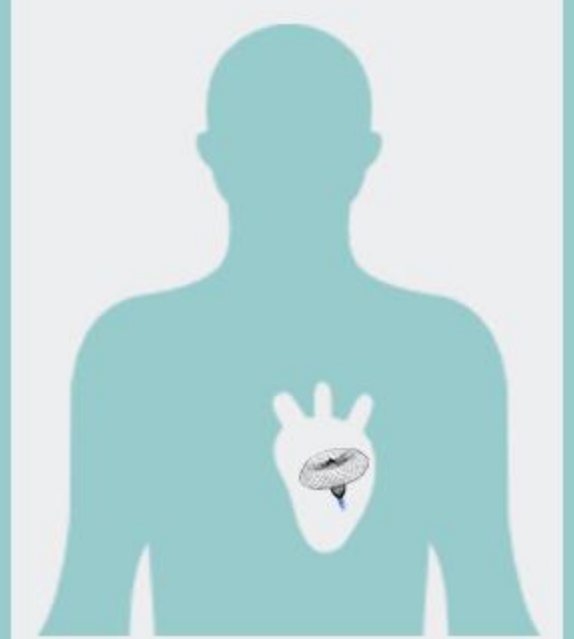
Upon successful device closure, doctor performed TEE again and X-ray examination, no residual shunt was found at the defect. There is also no bleeding at hemostasis site.

Well-designed stiffness offers excellent supporting force for big disks of ASDO.

Physical kneading technique applied to the hub helps with earlier endothelialization and greatly reduces thrombosis risk and guarantees long-term safety.



Compact and Uniform Oxide Filmed Nitinol Wire effectively prevents from the release of nickel ion and provides the occluder great hemocompatibility



MRI SAFE

Magnetic Resonance compatible device

According to a recently-published multicentric study in more than 600 patients having ostium secundum-type ASD in which surgical repair and closure with an occluder device were compared, in most percutaneous intervention cases, failure resulted from a wrong selection of occluder sizes [1]. This case suggested that using MemoPart ASD occluder to close large atrial septal defects is feasible and effective.

References

[1] Du ZD, Hijazi Z, Kleinman C, Silverman N, Larntz K, for the Amplatzer investigators.. Comparison between transcatheter and surgical closure of secundum atrial septal defect in children and adults..J Am Coll Cardiol, 39 (2002), pp. 1836-44

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